

1/10

FP Receptor Variant VAR-1

```
atgtccatga acaattccaa acagctagtg tctcctgcag ctgcgcttct ttcaaacaca 61
acctgccaga cggaaaaccg gctttccgta tttttttcag taatcttcat gacagtggga 121
atcttgtcaa acagccttgc catcgccatt ctcatgaagg catatcagag atttagacag 181
aagtccaagg catcgtttct gcttttggcc agcggcctgg taatcactga tttctttggc 241
catctcatca atggagccat agcagtattt gtatatgctt ctgataaaga atggatccgc 301
tttgaccaat caaatgtcct ttgcagtatt tttggtatct gcatggtgtt ttctggtctg 361
tgcccacttc ttctaggcag tgtgatggcc attgagcggg gtattggagt cacaaaacca 421
atatttcatt ctacgaaaat tacatccaaa catgtgaaaa tgatgttaag tgggtgtgtgc 481
ttgtttgctg ttttcatagc tttgctgccc atccttggac atcgagacta taaaattcag 541
gcgtcgagga cctggtgttt ctacaacaca gaagacatca aagactggga agatagattt 601
tatcttctac ttttttcttt tctggggctc ttagcccttg gtgtttcatt gttgtgcaat 661
gcaatcacag gaattacact tttaagagtt aaatttaaaa gtcagcagca cagacaaggc 721
agatctcatc atttggaat ggtaatccag ctccctggcg taatgtgtgt ctccctgtatt 781
tgttggagcc catttctggg atacagaata atattgaatg ggaaagagaa atataaagta 841
tatgaagagc aaagtgattt cttacatagg ttacaatggc caacattgga aTAAatggaa 901
atcattctct ggaaacctgt gaaacaacac tttttgctct ccgaatggca acatggaatc 961
aaatcttaga tccttgggta tatattcttc tacgaaaggc tgtccttaag aatctctata 1021
agcttgccag tcaatgctgt ggagtgcatt tcatcagctt acatatttgg gagcttagtt 1081
ccattaaaaa ttccttaaag gttgctgcta tttctgagtc accagttgca gagaaatcag 1141
caagcaccta g
```

FIGURE 1

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FP Receptor Variant VAR-2

```
atgtccatga acaattccaa acagctagtg tctcctgcag ctgcgcttct ttcaaacaca 61
acctgccaga cggaaaaccg gctttccgta tttttttcag taatcttcat gacagtggga 121
atcttgtcaa acagccttgc catcgccatt ctcataagg catatcagag atttagacag 181
aagtccaagg catcgtttct gcttttgcc agcggcctgg taatcactga tttctttggc 241
catctcatca atggagccat agcagtattt gtatatgctt ctgataaaga atggatccgc 301
tttgaccaat caaatgtcct ttgcagtatt tttggatatct gcatgggtgtt ttctgggtctg 361
tgcccacttc ttctaggcag tgtgatggcc attgagcggg gtattggagt cacaaaacca 421
atatcttcat ctacgaaaat tacatccaaa catgtgaaaa tgatgttaag tgggtgtgtgc 481
ttgtttgctg ttttcatagc tttgctgccc atccttggac atcgagacta taaaattcag 541
gcgtcgagga cctgggtgtt ctacaacaca gaagacatca aagactggga agatagattt 601
tatcttctac ttttttctt tctggggctc ttagcccttg gtgtttcatt gttgtgcaat 661
gcaatcacag gaattacact tttaagagtt aaatttaaaa gtcagcagca cagacaaggc 721
agatctcatc atttggaat ggtaatccag ctccctggcg taatgtgtgt ctctgtatt 781
tgttgagcc catttctgaa aatagaagga aaaataaaag tcacaTGAgT gaaggagaaa 841
cagaacgcaa ggggtgaaaac aaggcaatta gggcagcaga aagctggtgg tatgaggggtg 901
aagagaggca ctctcatgtt ttgggaactc tgttggaag gttacaatgg ccaacattgg 961
aataaatgga aatcattctc tggaaacctg tgaaacaaca ctttttgctc tccgaatggc 1021
aacatggaat caaatcttag atccttgggt atatattctt ctacgaaagg ctgtccttaa 1081
gaatctctat aagcttgcca gtcaatgctg tggagtgcac gtcacagct tacatatttg 1141
ggagcttagt tccattaaaa attccttaaa ggttgctgct atttctgagt caccagttgc 1221
agagaaatca gcaagcacct ag
```

FIGURE 2

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FP Receptor Variant VAR-3

```
atgtccatga acaattccaa acagctagtg tctcctgcag ctgcgcttct ttcaaacaca 61
acctgccaga cggaaaaccg gctttccgta tttttttcag taatcttcat gacagtggga 121
atcttgtcaa acagccttgc catcgccatt ctcatgaagg catatcagag atttagacag 181
aagtccaagg catcgtttct gcttttggcc agcggcctgg taatcactga tttctttggc 241
catctcatca atggagccat agcagtattt gtatatgctt ctgataaaga atggatccgc 301
tttgaccaat caaatgtcct ttgcagtatt tttggtatct gcatggtgtt ttctggtctg 361
tgcccacttc ttctaggcag tgtgatggcc attgagcggg gtattggagt cacaaaacca 421
atatttcatt ctacgaaaat tacatccaaa catgtgaaaa tgatgttaag tgggtgtgtg 481
ttgtttgctg ttttcatagc tttgctgccc atccttggac atcgagacta taaaattcag 541
gcgtcgagga cctggtgttt ctacaacaca gaagacatca aagactggga agatagattt 601
tatcttctac ttttttcttt tctggggctc ttagcccttg gtgtttcatt gttgtgcaat 661
gcaatcacag gaattacact ttttaagagt aaatttaaaa gtcagcagca cagacaaggc 721
agatctcatc atttggaat ggtaatccag ctctggcg taatgtgtgt ctctgtatt 781
tgttggagcc catttctggg atacagaata attttgaatg ggaaagagaa atataaagta 841
tatgaagagc aaagtgattt cttacataga aaaTAGaagg aaaaataaaa gtcacatgag 901
tgaaggagaa acagaacgca agggtgaaaa caaggcaatt agggcagcag aaagctggtg 961
gtatgagggg gaagagaggc actctcatgt tttgggaact ctgttggaaa gggtacaatg 1021
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ctccgaatgg caacatggaa tcaaactcta gatccttggg tatatattct tctacgaaag 1141
gctgtcctta agaatctcta taagcttgcc agtcaatgct gtggagtgc tgatcatcagc 1221
ttacatattt gggagcttag ttccattaaa aattccttaa aggttgctgc tatttctgag 1281
tcaccagttg cagagaaatc agcaagcacc tag
```

FIGURE 3

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FP Receptor Variant VAR-4

```
atgtccatga acaattccaa acagctagtg tctcctgcag ctgcgcttct ttcaaacaca 61
acctgccaga cggaaaaccg gctttccgta tttttttcag taatcttcat gacagtggga 121
atcttgtcaa acagccttgc catcgccatt ctcatgaagg catatcagag atttagacag 181
aagtccaagg catcgtttct gcttttggcc agcggcctgg taatcactga tttctttggc 241
catctcatca atggagccat agcagtattt gtatatgctt ctgataaaga atggatccgc 301
tttgaccaat caaatgtcct ttgcagtatt tttggtatct gcatgggtgtt ttctgggtctg 361
tgcccacttc ttctaggcag tgtgatggcc attgagcggg gtattggagt cacaaaacca 421
atattttcatt ctacgaaaat tacatccaaa catgtgaaaa tgatgttaag tgggtgtgtgc 481
ttgtttgctg ttttcatagc tttgctgccc atccttggac atcgagacta taaaattcag 541
gcgtcgagga cctgggtgtt ctacaacaca gaagacatca aagactggga agatagattt 601
tatcttctac ttttttcttt tctggggctc ttagcccttg gtgtttcatt gttgtgcaat 661
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agatctcatc atttggaat ggtaatccag ctctggcgga taatgtgtgt ctctgtatt 781
tgttggagcc catttctggg gaaagaaact catctccaga tgagactttg gacttggggac 841
tttcgagtta atgctttgga ggactattgc gaaggcttga ctgtatttTG Aaatgttaca 901
atggccaaca ttggaataaa tggaaatcat tctctggaaa cctgtgaaac aacacttttt 961
gctctccgaa tggcaacatg gaatcaaatc ttagatcctt gggatatatat tcttctacga 1021
aaggctgtcc ttaagaatct ctataagctt gccagtcaat gctgtggagt gcatgtcatc 1081
agcttacata tttgggagct tagttccatt aaaaattcct taaagggtgc tgctatttct 1141
gagtcaccag ttgcagagaa atcagcaagc acctag
```

FIGURE 4

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FP Receptor Variant VAR-5

```

atgtccatga acaattccaa acagctagtg tctcctgcag ctgcgcttct ttcaaacaca 61
acctgccaga cggaaaaccg gctttccgta tttttttcag taatcttcat gacagtggga 121
atcttgtaa acagccttgc catcgccatt ctcatgaagg catatcagag atttagacag 181
aagtccaagg catcgtttct gcttttggcc agcggcctgg taatcactga tttctttggc 241
catctcatca atggagccat agcagtattt gtatatgctt ctgataaaga atggatccgc 301
tttgaccaat caaatgtcct ttgcagtatt tttggatatct gcatgggtgtt ttctgggtctg 361
tgcccacttc ttctaggcag tgtgatggcc attgagcggg gtattggagt cacaaaacca 421
atatttcatt ctacgaaaat tacatccaaa catgtgaaaa tgatgttaag tgggtgtgtgc 481
ttgtttgctg ttttcatagc tttgctgccc atccttggac atcgagacta taaaattcag 541
gcgtcgagga cctgggtgtt ctacaacaca gaagacatca aagactggga agatagattt 601
tatcttctac ttttttcttt tctggggctc ttagcccttg gtgtttcatt gttgtgcaat 661
gcaatcacag gaattacact ttttaagagt aaatttaaaa gtcagcagca cagacaaggc 721
agatctcatc atttggaaat ggtaatccag ctctggcgga taatgtgtgt ctctgtatt 781
tgttggagcc catttctgcg aTAAgacact caacgagaaa tgacagaaaa acaagggtgtg 841
gatggagagg caacatgaaa gtggatcaaa caacttatac atgggtgctg gctcagacgt 901
gacacctgag gctccagaac tgggaagtta tgccgtcaag ttacaatggc caacattgga 961
ataaatggaa atcattctct ggaaacctgt gaaacaacac tttttgctct ccgaatggca 1021
acatggaatc aaatcttaga tccttgggta tatattcttc tacgaaaggc tgctcttaag 1081
aatctctata agcttgccag tcaatgctgt ggagtgcatt tcatcagctt acatatttgg 1141
gagcttagtt ccattaaaaa ttccttaaa gttgctgcta tttctgagtc accagttgca 1221
gagaaatcag caagcaccta g

```

FIGURE 5

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FP Receptor Variant VAR-6

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atgtccatga acaattccaa acagctagtg tctcctgcag ctgcgcttct ttcaaacaca 61
acctgccaga cggaaaaccg gctttccgta tttttttcag taatcttcat gacagtggga 121
atcttgtcaa acagccttgc catcgccatt ctcatgaagg catatcagag atttagacag 181
aagtccaagg catcgtttct gcttttggcc agcggcctgg taatcactga tttctttggc 241
catctcatca atggagccat agcagtattt gtatatgctt ctgataaaga atggatccgc 301
tttgaccaat caaatgtcct ttgcagtatt tttggtatct gcatgggtgt ttctgggtctg 361
tgcccacttc ttctaggcag tgtgatggcc attgagcggg gtattggagt cacaaaacca 421
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ttgtttgctg ttttcatagc tttgctgccc atccttggac atcgagacta taaaattcag 541
gcgtcgagga cctgggtgttt ctacaacaca gaagacatca aagactggga agatagattt 601
tatcttctac ttttttcttt tctggggctc ttagcccttg gtgtttcatt gttgtgcaat 661
gcaatcacag gaattacact tttaagagtt aaatttaaaa gtcagcagca cagacaaggc 721
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tgttggagcc catttctgac acattggggg aaagaaattc caTGAtccct cctgtgccta 841
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gacagcgata agacactcaa cgagaaatga cagaaaaaca aggtgtggat ggagaggcaa 961
catgaaagtg gatcaaacaa cttatacatg ggtgctggct cagacgtgac acctgaggct 1021
ccagaactgg aagtttatgc cgtcaagtta caatggccaa cattggaata aatggaaatc 1081
attctctgga aacctgtgaa acaacacttt ttgctctccg aatggcaaca tggaaatcaa 1141
tcttagatcc ttgggtatat attcttctac gaaaggctgt ccttaagaat ctctataagc 1221
ttgccagtca atgctgtgga gtgcatgtca tcagcttaca tatttgggag cttagttcca 1281
ttaaaaattc cttaaagggt gctgctattt ctgagtcacc agttgcagag aaatcagcaa 1321
gcacctag
```

FIGURE 6

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FP WT	MSMNNSKQLV	SPAAALLSNT	TCQTENRLSV	FFSVIFMTVG	ILSNLAIAI	LMKAYQRFQ	KSKASFLLLA
VAR-1	MSMNNSKQLV	SPAAALLSNT	TCQTENRLSV	FFSVIFMTVG	ILSNLAIAI	LMKAYQRFQ	KSKASFLLLA
VAR-2	MSMNNSKQLV	SPAAALLSNT	TCQTENRLSV	FFSVIFMTVG	ILSNLAIAI	LMKAYQRFQ	KSKASFLLLA
VAR-3	MSMNNSKQLV	SPAAALLSNT	TCQTENRLSV	FFSVIFMTVG	ILSNLAIAI	LMKAYQRFQ	KSKASFLLLA
VAR-4	MSMNNSKQLV	SPAAALLSNT	TCQTENRLSV	FFSVIFMTVG	ILSNLAIAI	LMKAYQRFQ	KSKASFLLLA
VAR-5	MSMNNSKQLV	SPAAALLSNT	TCQTENRLSV	FFSVIFMTVG	ILSNLAIAI	LMKAYQRFQ	KSKASFLLLA
VAR-6	MSMNNSKQLV	SPAAALLSNT	TCQTENRLSV	FFSVIFMTVG	ILSNLAIAI	LMKAYQRFQ	KSKASFLLLA

SGLVITDFFG	HLINGAIAVF	VYASDKEWIR	FDQSNVLC SI	FGICMVFSGL	CPLLLGSVMA	IERCIGVTKP
SGLVITDFFG	HLINGAIAVF	VYASDKEWIR	FDQSNVLC SI	FGICMVFSGL	CPLLLGSVMA	IERCIGVTKP
SGLVITDFFG	HLINGAIAVF	VYASDKEWIR	FDQSNVLC SI	FGICMVFSGL	CPLLLGSVMA	IERCIGVTKP
SGLVITDFFG	HLINGAIAVF	VYASDKEWIR	FDQSNVLC SI	FGICMVFSGL	CPLLLGSVMA	IERCIGVTKP
SGLVITDFFG	HLINGAIAVF	VYASDKEWIR	FDQSNVLC SI	FGICMVFSGL	CPLLLGSVMA	IERCIGVTKP
SGLVITDFFG	HLINGAIAVF	VYASDKEWIR	FDQSNVLC SI	FGICMVFSGL	CPLLLGSVMA	IERCIGVTKP
SGLVITDFFG	HLINGAIAVF	VYASDKEWIR	FDQSNVLC SI	FGICMVFSGL	CPLLLGSVMA	IERCIGVTKP

IFHSTKITSK	HVKMMLSGVC	LFAVFIALLP	ILGHRDYKIQ	ASRTWCFYNT	EDIKDWE DRF	YLLLF SFLGL
IFHSTKITSK	HVKMMLSGVC	LFAVFIALLP	ILGHRDYKIQ	ASRTWCFYNT	EDIKDWE DRF	YLLLF SFLGL
IFHSTKITSK	HVKMMLSGVC	LFAVFIALLP	ILGHRDYKIQ	ASRTWCFYNT	EDIKDWE DRF	YLLLF SFLGL
IFHSTKITSK	HVKMMLSGVC	LFAVFIALLP	ILGHRDYKIQ	ASRTWCFYNT	EDIKDWE DRF	YLLLF SFLGL
IFHSTKITSK	HVKMMLSGVC	LFAVFIALLP	ILGHRDYKIQ	ASRTWCFYNT	EDIKDWE DRF	YLLLF SFLGL
IFHSTKITSK	HVKMMLSGVC	LFAVFIALLP	ILGHRDYKIQ	ASRTWCFYNT	EDIKDWE DRF	YLLLF SFLGL
IFHSTKITSK	HVKMMLSGVC	LFAVFIALLP	ILGHRDYKIQ	ASRTWCFYNT	EDIKDWE DRF	YLLLF SFLGL

LALGVSLLCN	AITGITLLRV	KFKSQHRQG	RSHHLEMVIQ	LLAIMCVSCI	CWSPFLVTMA	NIGINGNHS L
LALGVSLLCN	AITGITLLRV	KFKSQHRQG	RSHHLEMVIQ	LLAIMCVSCI	CWSPFLGYRI	ILNGKEKYKV
LALGVSLLCN	AITGITLLRV	KFKSQHRQG	RSHHLEMVIQ	LLAIMCVSCI	CWSPFLKIEG	KIKVT-----
LALGVSLLCN	AITGITLLRV	KFKSQHRQG	RSHHLEMVIQ	LLAIMCVSCI	CWSPFLGYRI	ILNGKEKYKV
LALGVSLLCN	AITGITLLRV	KFKSQHRQG	RSHHLEMVIQ	LLAIMCVSCI	CWSPFLVKET	HLQMR LWTWD
LALGVSLLCN	AITGITLLRV	KFKSQHRQG	RSHHLEMVIQ	LLAIMCVSCI	CWSPFLR---	-----
LALGVSLLCN	AITGITLLRV	KFKSQHRQG	RSHHLEMVIQ	LLAIMCVSCI	CWSPFLTHWG	KEIP-----

ETCETTLFAL	RMATWNQILD	PWVYILLRKA	VLKNLYKLAS	QCCGVHVISL	HIWELSSIKN	SLKVAAISES
YEEQSDFLHR	LQWPTLE---	-----	-----	-----	-----	-----
YEEQSDFLHR	K-----	-----	-----	-----	-----	-----
FRVNALEDYC	EGLTVF----	-----	-----	-----	-----	-----
-----	-----	-----	-----	-----	-----	-----
-----	-----	-----	-----	-----	-----	-----

PVAEKSAST

FIGURE 7

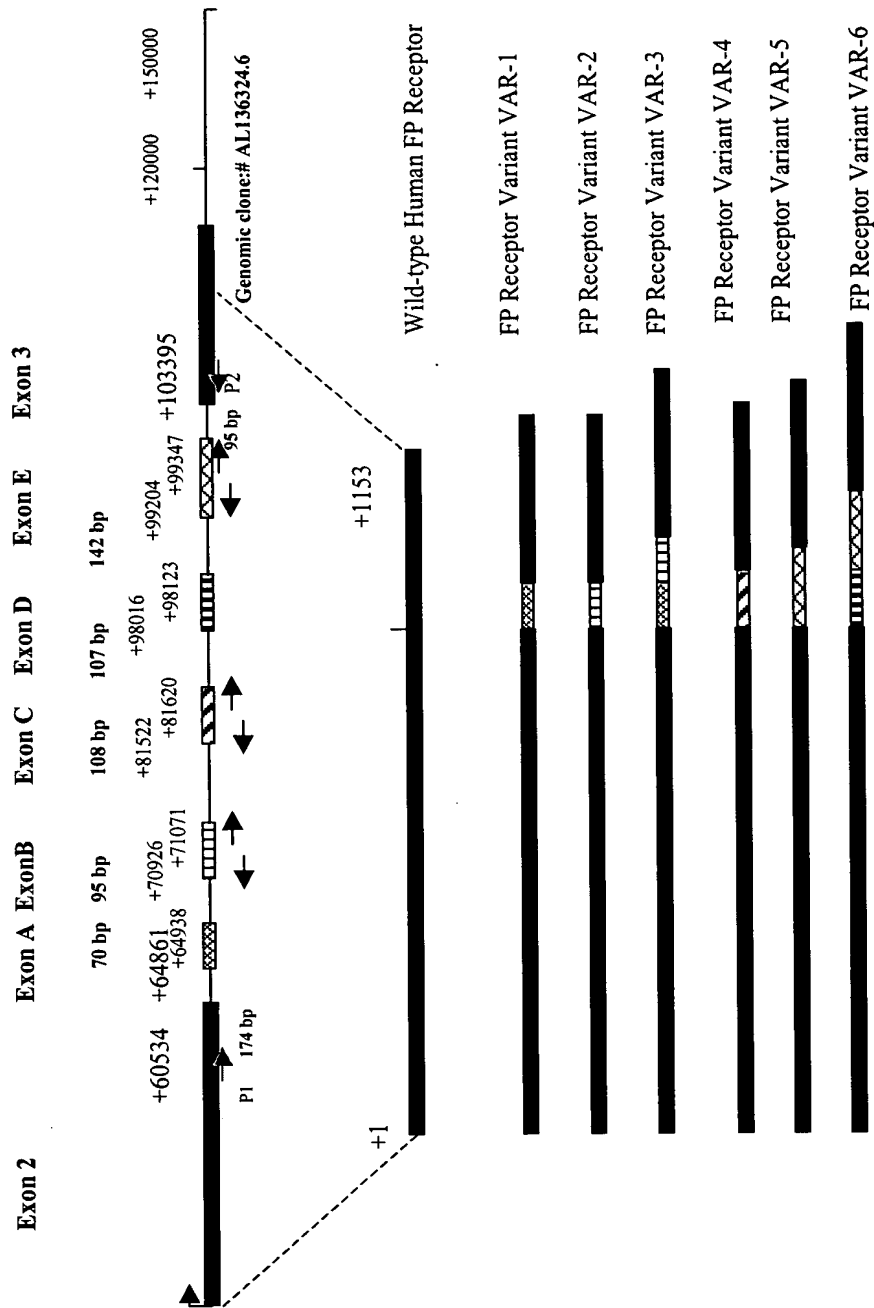
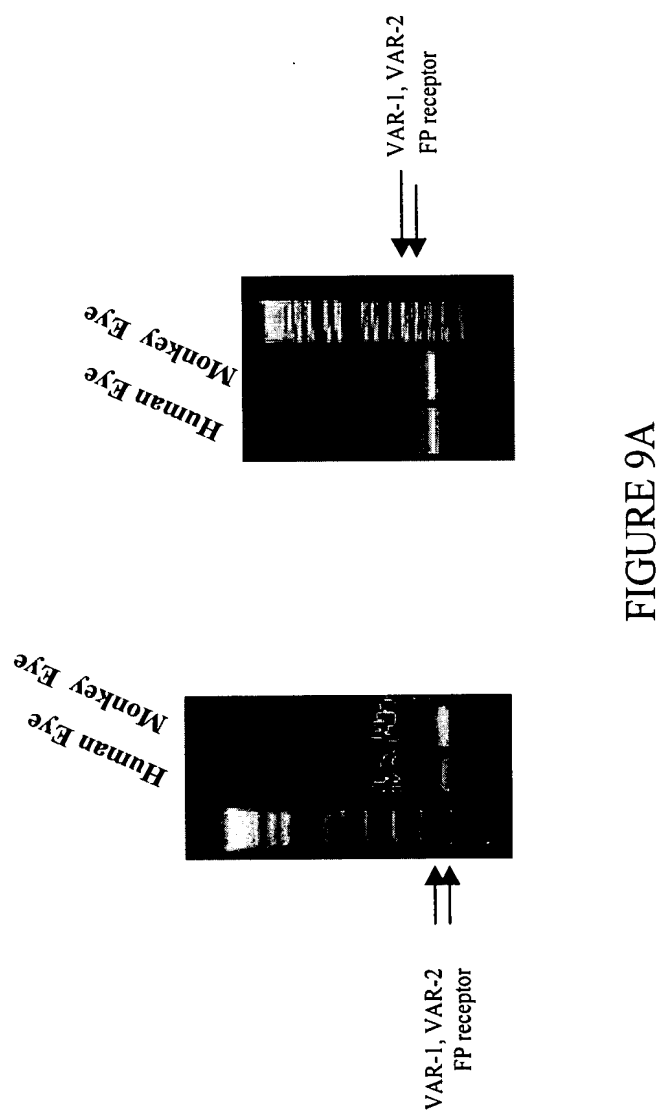


FIGURE 8

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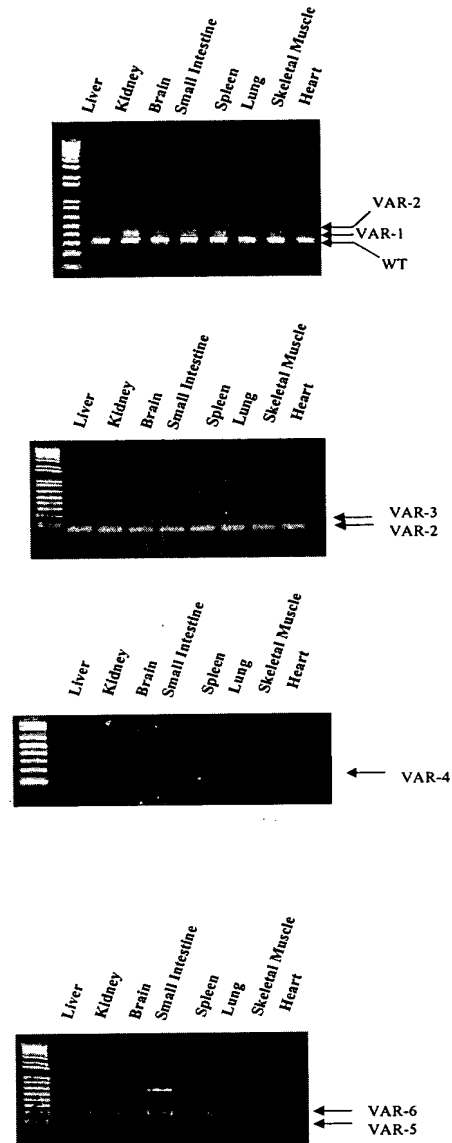


FIGURE 9B